

0XC-2692  
COPY 1 OF 1

November 18, 1961  
JF-M-331

25X1A

[redacted]  
P. O. Box 493  
Ontario, California

Dear Bob:

25X1A

Reference your TWX #4878 and our TWX #796. Attached please find three copies of a listing of equipment which will be required at the [redacted] for operational use. This listing is exclusive of the items on the UAL IBM listing which was furnished us during our visit at your facility on November 6.

The items on the listing which are noted as "to be supplied by CH" are available here. The other items will necessarily have to be procured.

Regards,

25X1A

[redacted]  
Charlie

CMH:jaf  
Attachment in triplicate

25X1A

cc: [redacted]  
(with attachment in duplicate)

1 copy destroyed

PVZ  
PR-8200  
Proposal

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
1	16" Dia. - 180" F1 Parabola	Perkin-Elmer	---	2	CH Stock
2	16" Mirror Mount	J. Unertl	---	2	CH Stock
3	12" Dia. 1/20 $\lambda$ Mirror	Perkin-Elmer	---	2	CH Stock
4	12" Dia. Mirror Mount	J. A. Maurer	---	2	CH Stock
5	Auto-Collimator	Hilger-Watts	TA-1	2	CH Stock
6	Penta Prisms	Hilger-Watts	TP-103	4	
7	Optical Benches	Gaertner	L-360NB	2	
8	Optical Bench Carriage	Gaertner	L-360NR	2	
9	Theodolite	Kern	DKM3-PE2	1	
10	Power Supply (2 Watt concentrated Arc Lamp)	G. W. Gates & Co.	GZ2U	2	CH Stock
11	Concentrated Arc Lamps	Sylvania	Type A-2	12	
12	Collimator 18"	Perkin-Elmer	---	2	CH Stock
13	Collimator 10"	Perkin-Elmer	---	2	CH Stock
14	Eyepieces 1"	Perkin-Elmer	---	4	CH Stock
15	Sine Wave Tester	Perkin-Elmer	---	1	CH Stock
16	Eyepiece - Abbe Lamont Auto-Collimating	Gaertner	L 372	2	
17	Microscope	Gaertner	M101A	2	
18	Microscope Objective - 40X - 215MM Tube Length Without Cover Glass	Bausch & Lomb	#42-33-56	1	

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19	Reticle - Pin Hole (.001, .002, .005 X 3/8 O.D.)	--	---	6 each	CH Stock
20	Microscope Objective--Apergon- Infinity Corrected 200X - .30 N.A. 16MM (Without cover Glass)	American Optical Co.	C24-03	1	
21	Universal Microscope Illuminator	American Optical Co.	353A	2	
22	Heat Absorbing Glass Filter	American Optical Co.	308	2	To Be Supplied by CH
23	Illuminator Bulbs (Spare)	American Optical Co.	360	6	To Be Supplied by CH
24	Variable Transformer	American Optical Co.	350	2	
25	Microscope Body & Tube with Fine Focus Adjustment	Bausch & Lomb	31-29-03-01	1	
26	Filar Eyepiece Micrometer with Revolution Counter	Gaertner	M202T	2	
27	Gauss Eyepiece	Gaertner	L374	2	
28	Camera Kit with Timer	Polaroid	110A	1	
29	Dioptrimeter $\pm$ 4 Diopters	Keuffel & Esser		1	
30	3' X 5' Black Granite Surf. Plate-Lab. Grade--Accuracy Guaranteed to 25 millionths (including stand)	Collins Micro-flat		1	
31	Oscilloscope Camera	Hewlett Packard	196A	1	
32	Precision Indicator	LS Starrett	25-511	4	
33	Microscope Objective-Apergon- Infinity Corrected 8MM - .50 N.A. - 500 X (without cover glass)	American Optical	C2408	2	

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34	Optical Cleaning Kits			6	To be Supplied by CH
35	Microscope Objective Metallographic - Achromat 40X - .65NA (without cover glass)	American Optical		2	
36	Isomode Pads	--	---	6	CH Stock
37	Misc. Lab. Equipment Stands, Clamps, Rods etc.	Gartner Scientific	See PE PO 57752 56742	---	To be Supplied by CH
38	Misc. Optical Flats & Prisms			As Req.	To be Supplied by CH
39	Support Fixture--Opt. Bench Complete Ass'y	PE Fabrication		2	To be Supplied by CH
40	Complete Optical Align. Set-Up (Construction)	Perkin-Elmer Fabrication Dwg. No.		1	Concrete Slabs to be Poured per CH Instructions
41	Scanner Drive Fixture	PE Fabrication		1	To be Supplied by CH
42	Cube Alignment Fixture	PE Fabrication		1	To be Supplied by CH
43	Vernier Height Gage	L. S. Starrett	454-24	1	
44	Precision Indicator	Brown & Sharpe	BesTest No. 7027	2	
45	Precision Indicator	Brown & Sharpe	BesTest No. 7028	2	
46	Hardened Steel Square and Finished Case	L. S. Starrett	No. 20-12	1	
47	Hi-Precision Outside Micrometer Caliper (with case)	L. S. Starrett	No. 221	1	

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3	Outside Micrometer Caliper (with case)	L. S. Starrett	T230RL	1	
9	Depth Gage Set	L. S. Starrett	440-9L	1	
0	Vernier Caliper	Brown & Sharpe	577	1	
1	Protractor	L. S. Starrett	C364F	1	
2	1/4" Sq. Drive Midget Socket Wrench Set	Proto Tool	4700C	1	
3	1/4" Sq. Dr. Deep Length Sockets	Proto Tool	4708L, 4709L, 4710L, 4711L, 4712L, 4714L	1 each	
4	Adjustable Wrenches	Proto Tool	704L, 706L, 708L, 710L, 712L, 715L, 720L	1 each	
5	Combination Box & Open End Wrench Set	Proto Tool	1200 F	1	
6	Tappet Wrenches	Proto Tool	3425, 3426, 3430, 3435, 3440	2 each	
7	Electrical Wrench Set	Billings	E-14-R	2	
8	1/2" Sq. Drive Set	Proto Tool	5400-0C	1	
9	1/2" Sq. Drive Deep Socket Set	Proto Tool	5300 A	1	
0	Torque Wrench Set	Snap-on	TQ-S-050	2	
1	Torque Wrench Set	Snap-on	TQ-S-025	2	
2	Ultrasonic Cleaner & Associated Equip.	Transton Inst.		1	

CH Stock

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
63	Tote Trays, Plastic Bags, Etc.			As. Req.	
64	Solvents; Acetone, Alcohol, Etc.			As Req.	
65	Heli-Coil Tools & Inserts	Heli-Coil Corp.			CH Stock
66	Tool & Rolling Bench Set	Proto Tool	9902A	2	
67	Heavy Duty 1/4" Drill	Black & Decker		2	
68	1/2" Portable Drill	Black & Decker		1	
69	Instrument Lubricants			As Req.	
70	Sensitive Drill Press	Hamilton		1	
71	Drill Press & Stand	South Bend		1	
72	Milling Machine	Bridgeport		1	
73	Lathe	Harrison-Clearing	U.S. 1	1	
74	Industrial Grinder & Stand	Walker-Turner	7123-2401	1	To be coordinated with Material Mtr.
75	Band Saw (Wood & Metal)	Walker-Turner		1	
76	Small Machine Tools for Above (Drills, Reamers, Taps, Etc.)			As Req.	
77	Misc. St. St Hardware			As Req.	
78	Number Drill Sets			2	
79	Letter Drill Sets			2	
80	Fractional Drill Sets			2	
81	Taps & Dies			2 Sets	

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
82	Hoods (Clean Cabinets)	Specialties, Inc.		2	
83	Servoscope	Servo Corp. of America		1	CH Stock
84	Oscilloscope & Cart	Tektronix	535A	1	
85	Oscilloscope	Hewlett-Packard	130B	1	
86	Servo Test Rack-Phasometer Incl. 6 Channel Recorder	PE Fabrication Brush Recorder		1 1	
87	DC Power Supply	Sorensen	Q Nobatron QR 75-2	2	
88					
89	Voltomyst	RCA	WV-98A	1	CH Stock
90	Tube Tester	Hickok	539B	1	
91	Auto Batteries 6 volt 12 volt			2 2	
92	6-12 V Auto Battery Charger (Trickle)	Marquette		1	
93	AC Current Probe	Hewlett-Packard	456A-95A	1	
94	Vacuum Tube Voltmeter	Hewlett-Packard	410-B	1	
95	Precision DC Voltmeter	Hewlett-Packard	412 A	1	
96	Test Oscillator	Hewlett-Packard	650A	1	
97	Electronic Counter	Hewlett-Packard	522B	1	
98	Optical Tachometer Pick Up	Hewlett-Packard	506A	1	One Set-Up

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
99	Cable	Hewlett-Packard	56A-16B	1	
100	1000 Watt Isolation Transformer	Triad	N-59M	2	
101	2 Channel Recorder	Brush		1	
102	Memo-Scope	Hughes	104	1	
103	Oscillograph	Century		2	CH Stock
104	Optical Tachometer-Multiprobe Transistorized	Hewlett-Packard	219 A	1	
105	Variac	General Radio Co.	W10MT3	1	
106	Clip-On DC Milliammeter	Hewlett-Packard	428B	1	
107	Probe for DC Milliammeter	Hewlett-Packard	428	1	
108	Electric Wire - Teflon Covered (Various Sizes)	INSO Electronic Products Inc.	---	Good Assort.	
109	(Teflon Covered Wire) Elect. Wire Stripper			2	
110	Hand Operated Wire Strippers			1	To be Supplied by CH
111	Soldering Irons, Diagonal Cutters, Etc.				To be Supplied by CH
112	Two Stage Helium Cylinder Regulator	AIRCO	806-9413	3	NOTE: Final Selection of the items is dependent on type of helium gas available at Area.
113	Plug & Chain	AIRCO	801-0267	3	Items 112-119.



ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
14	Hose-Single Line 2 Braid Red 1/8" ID. X 10' Long--with fittings	AIRCO		3	
15	Helium Nut & Gland	AIRCO	839-0067 839-0107 839-0116	12 each	
16	10 Lb. Relief Gage and Regulator (to be fed by 30 psi line)	AIRCO	Special	3 each	
17	Flowmeter--System	PE Fab.	---	2	
18	Flowmeter--Air Bar	PE Fab.	---	1	
19	Manifold--Helium	AIRCO		1	
20	Scales: 100 lb. Capacity with Stop Spring Scale Spring Scale Spring Scale	Chatillon Chatillon. Chatillon Chatillon Chatillon	--- ODSR100H 509-250 719-10 516-1000	1 1 1 1	
21	Indicator (Tachometer)	Jaquet's Indicator Herman H. Sticht Co., NYC	2303-5	1	
22	Cast Iron Straight Edge	Brown & Sharpe	772-36	1	
23	Matched Pair Slotted Angle Plates (Scaped)			1 pair	
24	Micrometer Caliper Gage	L. S. Starrett	No. 24	1	
25	Levels	L. S. Starrett	No. 98-6"	3	CH Stock

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
126	Plate Glass - 1/4" thick X 6" Wide X Various Lengths 6" to 15"			2 each	To be Supplied by CH
127	Small Flat Mirrors (Various Sizes)	PE Fabrication			To be Supplied by CH
128	Shuttle Holding Fixture (Forward)	PE Fabrication		1	To be Supplied by CH
129	Shuttle Holding Fixture (Aft)	PE Fabrication		1	To be Supplied by CH
130	Dummy Shuttle (Fwd)	PE Fabrication		1	To be Supplied by CH
131	Dummy Shuttle (Aft)	PE Fabrication		1	To be Supplied by CH
132	Material Loading Fixture	PE Fabrication		1	To be Supplied by CH
133	Rewinder	Neumade Dynamic		2	
134	Splicer	CFE		1	CFE
135	Focal Plane Alignment Fixture - Forward	PE Fabrication		1	To be Supplied by CH
136	Focal Plane Alignment Fixture - Aft	PE Fabrication		1	To be Supplied by CH
137	Special Tools - Shuttle & Xport Assembly	PE Fabrication			To be Supplied by CH
138	Prisms	PE Fabrication			To be Supplied by CH
139	MacBeth Quanta Log Photometer	MacBeth	QP-10-1	1	
140	Quantalog Transmission Attachment	MacBeth	QT-20-2	1	

NOTE:  
This equipment might be available at Area.  
Check with Material Manufacturer  
Items 138-147

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
141	Reflection Unit for Quantalog Photometer	MacBeth		4	
142	Photomultiplier for Quantalog QE-10	MacBeth		2	
143	Bulbs for Quantalog QT-20	MacBeth		2	
144	Process Control Sensitometer	Eastman Kodak	Model 101	1	
145	Color Conversion Filter for Model 101	Eastman Kodak	#309	1	
146	Lamp & Plug Assembly	Eastman Kodak	816933	1	
147	Micro-Densitometer			1	
148	Light Table	Hamilton	51J3-J5550-59	1	
149	4" X 5" Camera with Polaroid Back			1	
150	50 X to 250 X Microscope with 35MM Camera Attach.	American Optical	Microstar Series 4	1	
151	Security Files for Exposed Material			2	
152	Rolling Work Bench with St. St. Deep Pan Top			1	CH Stock
153					
154	Helium Equipment 3000 psi	AIRCO or Equiv.		As Req.	To be Coordinated with vehicle manufacturer
155	Work Benches, Solid Steel Construction, Formica Top, Pref. Size - 2' x 6' x 4'			10	

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
156	Stools, Work Bench			10	
157	Lamps, Work Bench			10	
158	Cabinet, Storage		7125-269-8534	7	
159					
160					
161					
162					
163					
164					
165					
166	Gyro Alignment Fixture and Table	PE Fabrication		1	To be Supplied by CH
167	Slings, Shackles, Rope, etc.			As Req.	
168	Leak Detector	VEECO	MS-9AB	1	
169	Hot Plate (Special)	To be Supplied by PE	---	1	
170	Induction Welder	Lepel	T-2.5	1	

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ITEM NO.	DESCRIPTION	MANUFACTURER	PART NO.	QUANT.	REMARKS
71	Acetylene Welder	AIRCO	840-5746	1	
72	Recorder for Temperature Control - 0° to 600° F 24 point	Minneapolis-Honeywell		1	
73	Recorder-Pressure	Brush	MK II	1	
74					
75	Liquid Nitrogen Supply			As Req.	
76	Vacuum Pump	CENCO	Hyvac No. 14	3	Three systems are Required
77	Oil	CENCO	Hyvac 93050		
78	Flushing Oil	CENCO	Hyvac 53060		
79	Diffusion Pump (Air Cooled)	Consolidated Electro- Dynamic Corp.	VMF-21	3	
80	Vacuum Gage	Consolidated Vacuum Corp.	GPH-100A	3	
81	Valves, Connectors, Fittings			As Req.	
82	McLeod Gage	CENCO	94156	1	
83	Liquid Mercury--Purest Grade			30 Lbs.	

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